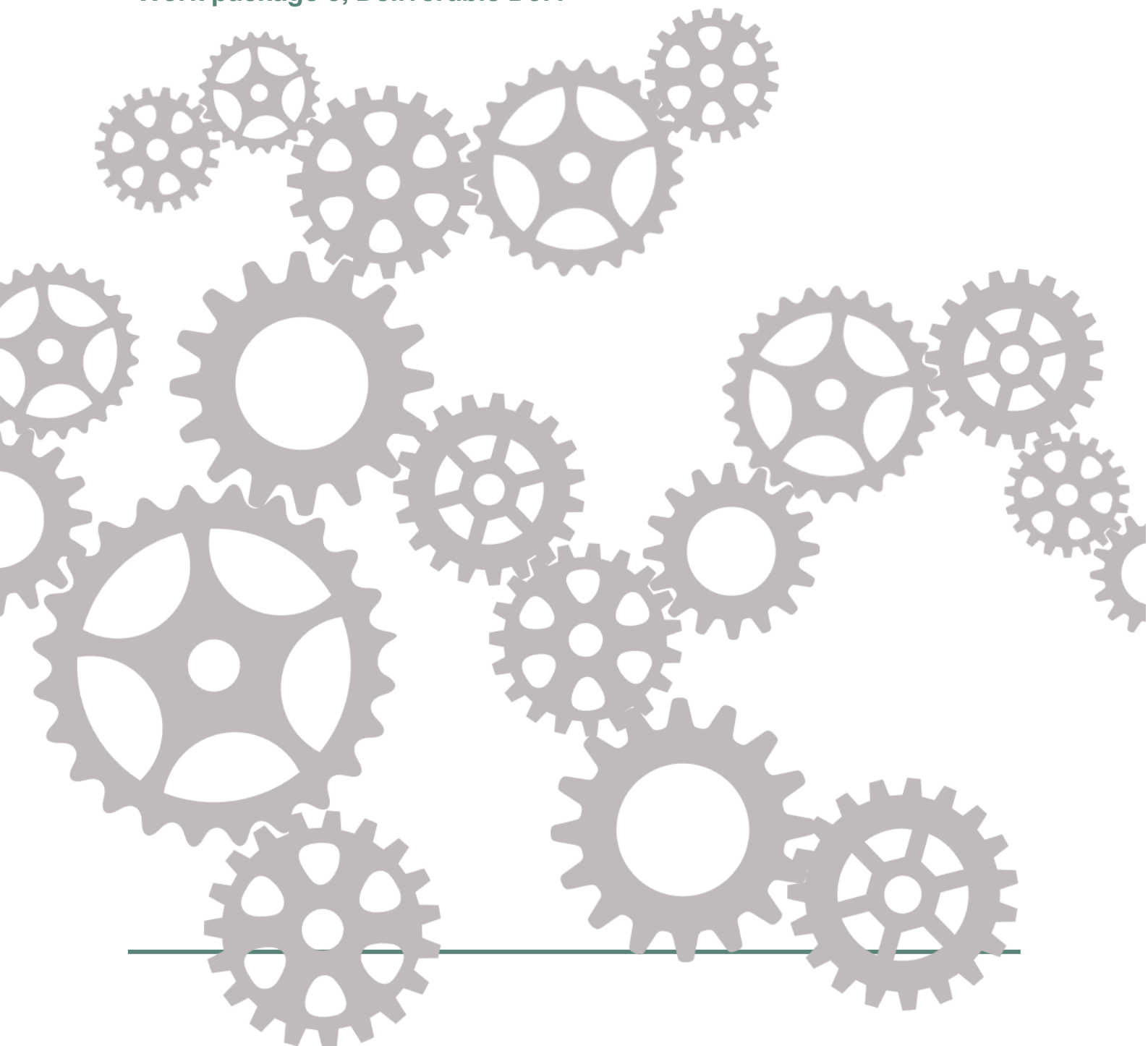


# Knowledge Calendar and Archive

Project KNOWING

Work package 5, Deliverable D5.4



# Knowledge Calendar and Archive

## Work package 5, Deliverable D5.4

**Please refer to this report as follows:**

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## List of Acronyms

CIC	Climate interaction context

## Glossary

Climate impacts	The consequences of realized risks on natural and human systems, where risks result from the interactions of climate-related hazards (including extreme weather and climate events), exposure, and vulnerability. Impacts generally refer to effects on lives; livelihoods; health and well-being; ecosystems and species; economic, social and cultural assets; services (including ecosystem services); and infrastructure (based on IPCC, 2018)

# Executive summary (publishable)

The KNOWING project develops a modelling framework to assess interactions between climate change impacts, adaptation strategies, and mitigation pathways, focusing on three Climate Impact Contexts: heat waves & health, soil fertility & agriculture, and flooding & infrastructure. Key Exploitable Results (KERs) include modelling tools, mitigation typologies, and activation services.

This deliverable (D5.4) supports the planning, documentation, and dissemination of workshops and training events designed to promote the practical uptake of KNOWING tools and services. With key tools like the KNOWING Shape Your Future App (D4.4), Playful Trainings (D4.5), and the concept of Decision Support Service (DSS – D4.6) nearing completion (M37–M38), regional training activities will begin from M38 onward.

Initial activities include:

- Launch of an event management tool in M18. The framework/platform was not developed specifically for KNOWING as originally intended, but is instead based on a tool that is part of SCC's background IPR. The event management tool based on this framework is offered as an interface on the website.
- Playful Training sessions in South Westphalia for tool co-creation,
- Early testing of the KNOWING Shape Your Future App in Naples,
- Numerous mini-workshops in SWF to explore local exploitation pathways.

The Knowledge Calendar and Archive provides access to training materials, event documentation, and recordings. While KNOWING does not develop a stand-alone communication or data tool, training templates and documentation will be available on the project website to support wider replication.

D5.4 contributes to the sustainability and exploitation of KNOWING results by embedding them into regional training formats and enabling their use by stakeholders beyond the project.

The activities originally scheduled to commence from M18 (workshops and training sessions) have so far only been carried out to a limited extent. The completion of the remaining deliverables from Work Package 4 was planned for dates beyond M18 (D4.5 – M37, D4.7 – Prototype M46). Additionally, the finalization of D4.4 has been delayed, and the launch of the app is now scheduled for M37.

The detailed planning for the implementation of workshops and events is outlined under section 4. Training and Workshop Concept/4.1 Timeline. Data as specified in T 5.4 for workshops, trainings and microevents according to current planning will be in the database initially by M38, will be online M 41 after the first series of trainings workshops and then updated at monthly until the end of the project.

# 1. KNOWING summary

Climate change has been globally recognised as an existential threat requiring urgent action to avoid catastrophic consequences. Hence, the EU’s Green Deal has been proposed “to make Europe the first climate neutral continent in the world”. This includes not only the elimination of net emissions of greenhouse gases by 2050; this is to be achieved while decoupling economic growth from resource use and striving for a fair implementation, leaving no person and no place behind. This ambitious goal is additionally challenged by the need to adapt to unavoidable impacts.

According to the EU’s Climate Adaptation Strategy (COM(2021) 82), “improving knowledge and managing uncertainty” is key for realising the vision of a climate neutral and climate-resilient Union, as “Climate change is having such a pervasive impact that our response to it must be systemic”. Thus, there is an **urgent need for an integrated approach for enhanced understanding of the interaction, complementarity and trade-offs** between adaptation and mitigation measures, especially regarding the expected increase in regional mean temperature, changing precipitation pattern and soil moisture (IPCC AR6 WG I). Furthermore, this **understanding and knowledge needs to be provided to a broad audience to support local authorities** in EU countries for developing regional programmes.

**KNOWING** aims to develop a **modelling framework to help understand and quantify the interactions** between impacts and risks of climate change, mitigation pathways and adaptation strategies. The framework will be used to assess the **interrelations between public and private adaptation and mitigation strategies** in order to **identify mitigation pathways along optimised combinations of interventions** in different sectors (e.g. energy, mobility, land use, construction, agriculture). The framework will focus on **three main Climate Impact Contexts (CICs)**: (1) Heat waves & health, (2) Soil fertility & agriculture, and (3) Flooding & infrastructure (including river and coastal flooding). It be applied **in four Demonstrator and five Follower Regions by involving authorities, stakeholders and citizens** to develop **enhanced activation and empowerment services, providing target-group-specific awareness, education and decision support tools** to improve the comprehensibility of complex interrelations and support strategic planning of combined adaptation and mitigation measures.

To achieve this goal, KNOWING will produce the following **key exploitable results (KERs)**:

1. an **Impact Interaction Knowledge Base** comprising causal relations of climate and intervention impacts, rebound effects, coping strategies, etc. to inform Climate-ADAPT and IPCC Working Groups I, II & III
2. an **Impact Interaction Model Framework** consisting of a system dynamics model, climate and sector models for integrated assessment of impacts (direct and indirect) of climate change and countermeasures
3. a Typology of transferable **Climate Mitigation Pathways** including optimised bundles of adaptation and mitigation measures for different typical Climate Impact Contexts (heat waves, soil fertility, flooding)
4. **Climate Activation and Empowerment Services** addressing different target groups (citizens, businesses, authorities) to enhance climate literacy, provide playful trainings and support decision making

These results, developed with the support of an External Expert Advisory Board (EEAB) and a Stakeholder Reference Group (SRG), will **accelerate the transition to a climate-neutral and resilient society and economy** enabled through advanced climate science, mitigation and adaptation pathways and behavioural transformations.

This Deliverable is part of WP5 Dissemination, Exploitation & Communication and will facilitate and support the organization of Events, Trainings & Workshops and make training materials accessible.

## 2. Object of the Deliverable

The overall goal of this deliverable is to support the preparation, organization, documentation, and accessibility of KNOWING workshops and training sessions. It contributes directly to the long-term usability and exploitation of KNOWING's Key Exploitable Results (KERs), particularly in the Demonstrator and Follower regions.

Specifically, the deliverable aims to:

- Facilitate and document capacity-building formats that support the uptake of KNOWING tools and services by regional stakeholders, multipliers, and practitioners.
- Enable structured access to training content, presentations, guidelines, and templates, with a focus on the practical application of KNOWING's Climate Activation & Empowerment Services (KER4).
- Support the rollout of the following KNOWING Communication Tools:
  - KNOWING Shape Your Future App
  - Playful Trainings
  - Decision Support Service (DSS)
- Provide a technical infrastructure—the Knowledge Calendar and Archive—for managing, sharing, and reusing event materials. This infrastructure will be integrated into the KNOWING website, offering searchable access to training materials, workshop summaries, and support resources for users and stakeholders. All relevant materials will be made publicly accessible and continuously updated to ensure usability during and beyond the project period. A framework/platform was not developed specifically for KNOWING as originally intended but is instead based on a tool that is part of SCC's background IPR. The event management tool based on this framework is offered as an interface on the website.
- Plan and implement a roadmap for trainings and microevents across demonstrator and follower regions:
  - Specific: Trainings and events will focus on the application of the App, DSS, and Playful Trainings tailored to regional needs and stakeholder types.
  - Measurable: A minimum of 8 workshops and microevents will be conducted by the end of the project—at least 2 per demonstrator region (South Westphalia, Naples, Granollers, Tallinn), with the possibility of additional activities in follower regions.
  - Achievable: Events will build on tested formats and local partnerships established in WP5, ensuring logistical and institutional feasibility.
  - Relevant: Activities will directly support the exploitation and application of KER4 tools in local contexts, including regional policy integration, civil society engagement, and planning practice.
  - Time-bound: Implementation will begin in Month 38, with a completion target of Month 47, ensuring documentation and publication by project end (Month 48)., cfr. 4.2 Timeline

## 3. Introduction

This deliverable introduces the Knowledge Calendar and Archive as a central tool to support the organisation, documentation, and accessibility of workshops and training sessions developed within the KNOWING project. Its core function is to facilitate the structured planning and publication of capacity-building formats that contribute to the uptake and exploitation of KNOWING's results.

The platform focuses on the training and dissemination of KNOWING's Climate Activation & Empowerment Services (KER4), developed in WP4 Tasks 4.3 to 4.7. These services are based on three key project deliverables:

- D 4.3 - Outreach Documentation (cf. Update D 4.3)
- D4.4 – KNOWING Shape Your Future App (M25, delayed to M36): An interactive tool to promote climate literacy and engagement, tested and deployed in the Naples demonstrator.
- D4.5 – KNOWING Playful Trainings (M37): A slide-based training format designed to interactively convey the core concepts and relevance of the KNOWING project. It introduces key scientific insights and applies them to the three Climate Impact Contexts (CICs). The format was co-developed and piloted in the South Westphalia demonstrator and serves as a flexible tool for awareness-raising, stakeholder engagement, and local adaptation of KNOWING results.
- D4.7 – Decision Support Service (DSS) – Conceptual Version (M18 – delayed to M 30) Final Prototype (M46): A system-based decision support tool that links modelling results to stakeholder decision contexts and training use cases.

Together, these tools aim to enhance climate awareness and decision-making capacity among regional stakeholders, including public authorities, civil society actors, and educators.

The Knowledge Calendar and Archive, hosted on the KNOWING website, provides searchable access to training content—such as workshop summaries, presentation materials, and practical templates. It is designed as a user-friendly and collaborative system that allows project partners and demonstrators to co-create and share training formats. A framework/platform was not developed specifically for KNOWING as originally intended, but is instead based on a tool that is part of SCC's background IPR. The event management tool based on this framework is offered as an interface on the website.

As of M37, key tools are being finalised, enabling the launch of structured training activities across all demonstrator regions. These events will be continuously integrated into the Knowledge Archive, establishing a roadmap for ongoing knowledge dissemination and exploitation.

The publication of all materials is aligned with a multi-channel dissemination strategy, including Zenodo, YouTube, Fediverse services, and integration with third-party platforms. This ensures that KNOWING outputs are not only archived but actively shared with broader audiences—including policy-makers, practitioners, and the general public.

## 4. Training & Workshops Concept

As explained, different workshops and training sessions will be organized across the four demonstrator regions (Naples, Granollers, South Westphalia, Tallinn) in order to maximize the usability of the knowledge communication tools developed in WP4 Task 4.3—namely the KNOWING Shape Your Future App, the KNOWING Playful Trainings, and the KNOWING Decision Support Service (DSS).

In this chapter, we are specifying the types of content in more detail that will be made accessible via the KNOWING website through the Knowledge Calendar and Archive. These content types include materials generated during trainings and micro-events, such as:

- slide decks and visual training modules,
- workshop materials and documentation,
- downloadable templates and facilitation guides,
- policy- and practice-oriented briefing materials,
- summaries and evaluations of stakeholder feedback.

This structure ensures that the training content is not only well-documented, but also reusable and transferable, supporting the uptake of KNOWING tools in both demonstrator and follower regions beyond the project lifetime.

Although being learning activities, the format, objectives and expected outcomes of these types of events differ conceptually from one type to another in the following way:

- **Format:** A workshop typically involves active participation and hands-on activities. It is designed to encourage collaboration, problem-solving, and the exchange of ideas among participants. Workshops often include group discussions, brainstorming sessions, group exercises, and practical tasks. In contrast, a training session is usually more structured and instructor-led, with a focus on delivering information, teaching specific skills, and providing guidance.
- **Objectives:** The objectives of a workshop and a training session can differ. A workshop often aims at promoting creativity, critical thinking, and skill development through experiential learning. It may focus on enhancing teamwork, fostering innovation, or problem-solving. On the other hand, a training session typically focuses on transferring knowledge, teaching specific skills, or providing information about a particular subject. The primary goal is to enhance participants' understanding and competence in a specific area.
- **Duration:** Workshops often span a longer duration compared to training sessions. Workshops can be conducted over a few hours, a full day, or even multiple days, allowing for in-depth exploration of a topic. Training sessions, on the other hand, are typically shorter and more focused, ranging from a few hours to a day or two.
- **Outcome:** The expected outcome of a workshop and a training session also differs. In a workshop, the desired outcome may include generating new ideas, developing innovative solutions, fostering collaboration, or building skills through experiential learning. In contrast, the outcome of a training session is usually focused on improving knowledge, developing specific skills, or enhancing understanding of a particular subject matter.

## 4.1. General idea

The general objective is to design both workshops and training sessions that support and maximize the use and dissemination of the KNOWING Communication Tools. Specifically, workshops will be used to co-design and validate the functionalities and usability of the KNOWING Communication Tools through discussion and interactive activities, while training sessions will be used to demonstrate and to provide information and instruction on the use of such tools.

Both types of events will be provided at each demo site according to the following criteria:

Table 1: Structure and content of the workshops and training sessions

Structure and content	Workshops	Training sessions
<b>Objective</b>	Promote creativity and critical thinking	Transference/Dissemination of KNOWING Communication Tools
<b>Format</b>	Ideally in person (potential match with the WP4 WS on Vision and Pathways) although virtual WS can be also considered High interactivity of attendees Language: local	Virtual (online session) Low interactivity of attendees (limited to asking questions or seeking clarification) The session will be recorded for future use Language: local and/or English
<b>Duration</b>	2-5 hours	0.5 - 1.5 hours
<b>Attendees</b>	Same attendees (stakeholders) than WP4 WS (potential to merge with WP4 WS)	Potential users of the developed tools: decision-makers, planners, environmental educators, university and school teachers, etc.
<b>Outcome</b>	New ideas for tool's development Validation of tool's functionalities	Ensure and enhance the use of the developed tools

## 4.2. Timeline

*The original plan was to start using the communication tools in the demonstrators' micro-events when the first KNOWING Communication Tool would be finalised in M24. During the course of the project, it became clear that precise co-creation with the regions is of particular importance and therefore more time is needed to create impactful content. The use of the communication tools in micro-events of the demonstrators is now planned after the presentation of the KNOWING Communication Tools at the KNOWING Consortium Meeting in Demonstrator region South Westphalia (M37-M38). The aim of two micro-events per demonstrator per year remains (one workshop and one training session per demo site makes 8 in total). This results in a minimum number of two micro-events per demonstrator using the KNOWING communication tools by the end of the project.*

According to this timeline, the results of the workshops, carried out at each demo site, will contribute to the design and tuning of the KNOWING Communication Tools (KNOWING Shape Your Future App and KNOWING DSS are updated every 8 months), while the results (recording) of the training sessions will be available for future uses as it is explained in the following sections.

### Update M36

Review:

- M18: delivery of D5.4, installation of an event management tool on the KNOWING website.
- M18-M23: Development of the stakeholder workshops "Challenge" and "Vision," including preparatory self-assessments for participants, Miro boards, and custom-designed game cards to support implementation.
- M25: Workshop on the Life Cycle Assessment (LCA) of a wind turbine with members of civil society in SWF, aimed at identifying the essential components of a playful training slide deck.

- M30-M37: development of a guideline to prepare for Playful Trainings Workshops as part of D4.5
- M32-M36: Use of the work-in-progress from D4.4 and D4.5 for the co-creation of a seminar series in collaboration with the adult education centre (VHS) in SWF. (8 micro sessions)

Plan for the Organization of workshops and microevents:

- M37: launch of KNOWING Shape your Future App (D4.4) and Playful Trainings (D4.5)
- M38: Development of the dataset to support the preparation, planning, and implementation of workshops, including links to materials and experience reports.
- M40: 1 workshop in all 4 demonstrator areas with selected stakeholders to test the solutions, identify and document weaknesses, and define a second workshop with a specific target group including civil society in Q1/2026
- M41-42: translation of materials for events and workshops with civil society
- M43-46: 1 workshop in each demonstrator area to a specific target group including civil society.

## 5. Database and Workflow

The Knowledge Calendar and Archive will increase the sustainability of KNOWING workshops and training sessions by providing access to training materials, recordings, tools, and guidelines, etc. It shall be relatively easy to adapt to the evolving needs of the project and to connect to other tools and services within the KNOWING project.

It shall be accessible beyond the KNOWING project and eventually transferable to other projects and initiatives.

### 5.1.Purpose and Implementation

The Knowledge Calendar and Archive uses a workflow to co-create content for a micro-event and organise it within a small team. However, the event must be replicable and/or serve as a blueprint for similar events (by topic/by target audience) and therefore must be comprehensibly documented and accessible in the future.

D5.4 is a facilitator for capacity building measures in the KNOWING project, therefore other KNOWING work packages will spark the idea for an event and the content; task 5.4 is mainly fuelled by requests from WP4, Task 4.3.

An *event team* will prepare the event. The assigned event team will have skills and knowledge according to the event topic and audience, e.g. key users to train utility of tools, scientists to introduce methodology and answer questions, assist for organizational and technical issues, etc. In any case a regional contact person tailored to the audience will be part of the team

The performance of digital/hybrid events will be supported upon request.

Event retrospect like e.g. a summary of results, pictures, videos, a download section for presentations, etc. will be made accessible publicly in the Dissemination Archive D5.3, but not limited to it. Public retrospect of events can be syndicated with other websites (e.g. partner websites, other project websites, etc.); defined rules for syndicating events are applicable.

The status of the event is visible as well as the rights for usage including rights for multimedia elements like pictures.

The application will automate the implementation of syndicating agreements and provide plug-ins for the most common website content management frameworks - Wordpress, Drupal (utilized by the EC), Typo3 eventually.

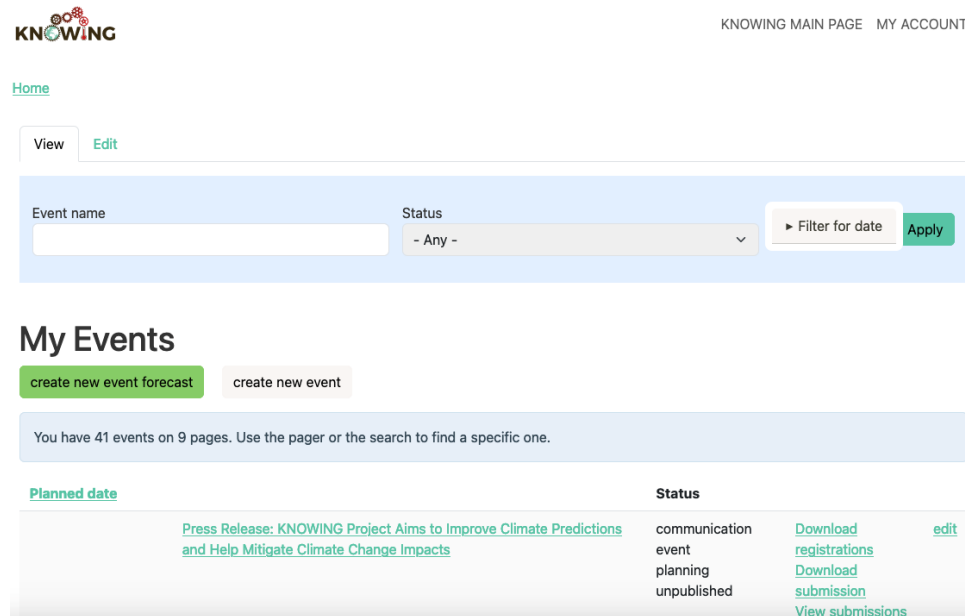


Figure 1: Interface from the KNOWING project's event management dashboard.

Figure 1 shows the dashboard from the perspective of members of the event team. D5.4 is a backend service that can feed into multiple websites as frontend. An example for this is the events section on the KNOWING website <https://knowing-climate.eu/news-and-events/events/>.

The KNOWING event database is designed for comprehensive event management, from initial planning and co-creation with team members through to publicising and evaluating the event. It supports various types of events related to the project's objectives, whether they are communication activities, scientific publications, or other significant project milestones. It is under development yet, therefore the content may be partly experimental and differ from content displayed on the KNOWING website.

The interface includes options to view and edit events, with a search bar to filter events by name or status. It is possible to either create an "Event Forecasts" or a "New Event", depending on the planning phase of the event. It will be possible to describe and plan events in detail and co-create with the relevant partners. Events can be personalised for individual users to manage their events.

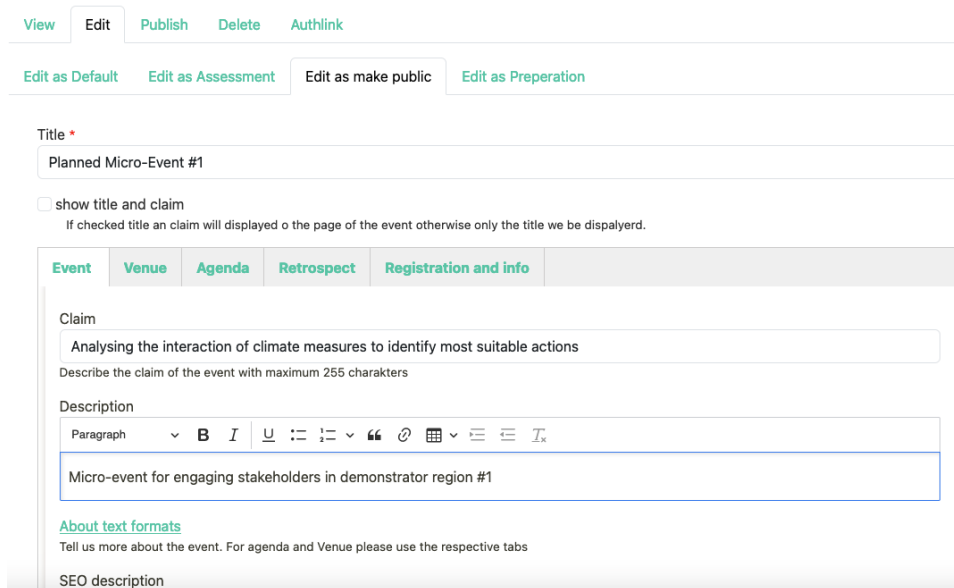


Figure 2: Interface from the KNOWING project's event management dashboard.

Once an event has been created, it can be changed in various planning contexts. As a “public event” (see tab in Figure 2), details about the event, location and agenda can be defined. In the Assessment field, KPIs to be achieved can be defined or, in retrospect, KPIs finally achieved can be analysed. There is a section for adding co-creators to collaborate on the event. Users can set the status of the event as Planning, In Progress, or Completed, to track the progress of the event organisation.

The organization of events according to T5.4 will start in M37, when Playful Trainings, Shape Your Future App, Knowledge Base and Decision Support Service (DSS) and the model pathways will be available or described sufficiently to engage regional stakeholders in workshops for them.

## 5.2.Event Support

In addition to the event database (including access to training materials), KNOWING partners will receive technical support in the preparation, implementation and post-production of events.

For higher impact on regional level, workshops and training sessions will be held in local language. However, it can be favourable to share and distribute events beyond regions. To keep the effort of localising webinars, workshops and training sessions reasonable, AI tools for (semi-)professional language synchronization will be explored and made available to the partners through the KNOWING Toolbox (D5.2).

One such tool under review is HeyGen.ai, which exemplifies the type of technology being considered for the project's requirements. HeyGen.ai, like its contemporaries in the field, utilizes advanced neural networks to process natural language, offering a scalable solution for translating and synchronizing video content across languages. This process typically involves automatic transcription of the original audio, translation into the target language, and subsequent generation of a synthetic voiceover. It is crucial to note, however, that HeyGen.ai is one of many tools being examined, with others including Rask.ai, Verbalate.ai, Vitra.ai, Wavel.ai, Maestra.ai, Veed.io, and Vizard.ai.

The decision to integrate any of these tools into the KNOWING project will be based on a thorough evaluation of their performance in terms of translation accuracy, ease of integration into existing workflows and quality of the user experience. The suitability of these tools to process domain-specific terminology relevant to the content of the KNOWING project will also be a key determinant.

As the project progresses towards the start of workshops in the second half of 2025, continuous monitoring and evaluation of these tools will be undertaken. This will include a thorough test of their adaptability to the regional and technical diversity encountered in the project's dissemination activities. The aim is to ensure that the chosen solution facilitates clear, accurate, and culturally relevant translations in line with the KNOWING project's commitment to accessibility and inclusivity.

## 5.3. Publication schemes

D5.4 will be made publicly available and there are multiple ways for interested parties to access it .

### KNOWING Website

The initial publication will be at the [KNOWING website](#) in the “News and Events” section. Selected materials such as how to use the KNOWING Communication Tools can also be accessible.

### Zenodo

Training materials, guidelines, a summary of the respective event and recommendations for multipliers of the event will be published on Zenodo.

Training materials, guidelines, a summary of each respective event, and recommendations for multipliers—along with a recording of the event, if feasible—will be published on Zenodo. The selection and preparation of these materials will follow a structured publication plan, with the first finalized content packages available from Month 40 onwards. All events conducted by Month 47 will be documented and uploaded by the end of the project (Month 48) at the latest. This timeline ensures that outputs are curated, quality-checked, and accessible for long-term reuse.

### YouTube and Fediverse

Recordings can be made accessible via YouTube and possibly via a Fediverse streaming repository.

Publications on Zenodo and the selection of a Fediverse service will be in accordance with the KNOWING Data Management Plan (D6.10). Arrangements for access to training materials will be important to ensure the impact of KNOWING beyond the project. So far no data has been provided to Zenodo, since the rollout of trainings events has yet to start.

## 6. Outlook and Roadmap

The start of production for the workshop and the training micro-events is estimated for **M38** and ongoing when the KNOWING Shape Your Future App, the Playful Training slide deck and the KNOWING Decision Support Service (DSS) are presented at the KNOWING Consortium Meeting in M37 in Demonstrator region South Westphalia in an initial version. It is expected that the micro-events will promote the uptake and recommendation of the tools by organisational users and practitioners, thereby increasing the engagement with the KNOWING project.

As described in section 4.1 General Idea, there is a difference between workshop and training micro-events. It is expected that the format of local level workshops can contribute to the mapping of user needs of different target groups and improve the design of use cases for service offerings to be exploited.

Therefore, a series of workshops will be designed and co-created with regional partners (demonstrators and followers) starting with **M38**, feeding directly to T5.5 Business Models & Exploitation Plan.

Publication of events and access to public recordings and materials via the website will be available as soon as (micro-)events take place; this information will then be updated regularly.

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## 7. Conclusions

Micro-events are considered effective tools to foster the wider uptake of the KNOWING communication tools on regional level. By training the utility of the provided Climate Activation & Empowerment Services developed in KNOWING T4.3, potential users will more often consider gaining insights for their work from the KNOWING results. Participating in workshops will foster awareness for climate related issues influencing the work of numerous target groups, e.g. practitioners, financial services, education, local administrations, etc.

Accessibility for recordings and training materials of micro-events by providing a database and publishing it via several channels will contribute to the sustainability of KNOWING results beyond the project and allow for an uptake from other (regional) projects and/or initiatives after the end of the KNOWING project.

However, developing a successful format for capacity building will require exploratory effort. Therefore, especially the starting events from M38 to M48 will be internally revised and the format as well as the supporting tool and database shall undergo continuous improvements.

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## Annex A: Data Summary

No new data sets relevant for KNOWING Data Management Plan were used or produced in preparation of this update of the deliverable. The final dataset representing D5.4 will be prepared from M38 to M48 and will be included in the next update of this deliverable.

## Annex B: Ethics Considerations

No relevant ethical areas for KNOWING were touched in preparation of this deliverable.

### Human Participation:

The project does not involve **children under the age of 14**, and minors over the age of 14 only participate with parental consent.

- No **persons in dependent positions or vulnerable individuals/groups** are involved in the project, so there is no relationship of dependency between participants and the research partners.
- Data is only processed in **anonymized or pseudonymized** form.

### Personal Data:

No genetic, biometric, or health data are processed as part of the project.

### Fair Benefit Sharing:

Detailed strategies for fair benefit sharing with local citizens and stakeholders in Demonstrator and Follower Regions, including Vietnam have not taken place yet and will be specified by the end of the project, when transfer of “innovations” (products, services, processes) to the Follower Regions will take place., will be/are specified in the Stakeholder Involvement Plan (D4.1) and the DEC Plan (D5.1).