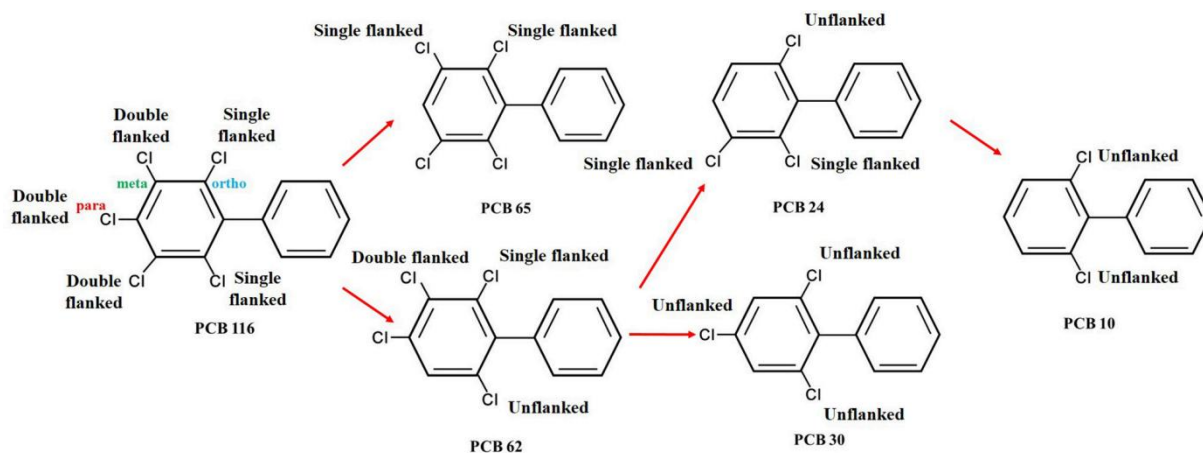




# Management of POPs Risks in the Context of the Transition to a Sustainable Bioeconomy (Acronym: POPs\_RISKMANbase)

## Annex WP4 D4.7

|                               |                 |                                                    |                                 |       |
|-------------------------------|-----------------|----------------------------------------------------|---------------------------------|-------|
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## Annotation of the solved task

The D4.7 Final Report summarizes the dissemination and promotional activities carried out within the project Management of POPs\_RISKMANbase in the Context of the Transition to a Sustainable Bioeconomy over the course of its implementation. The report forms part of Work Package WP4/KPB4 – Management and Dissemination, whose role was to ensure project management, communication among partners, data management, publication of results, and support for the dissemination of knowledge to both professional audiences and the wider public. In D4.1, KPB4 is defined as a work package focused on project management and information dissemination, supporting the technical work packages WP1/KPB1 to WP3/KPB3.

Project dissemination focused on transparently communicating the project's objectives, progress, and results, fostering professional and scientific discussion, and creating the conditions for the further application of project results in the areas of environmental management, POPs/PCB risk assessment, GIS-based data processing, monitoring, and decision support. An important dissemination tool was the project website, which is defined in D4.5 as a professional and transparent web-based platform for communication, the dissemination of scientific knowledge, and the promotion of cross-sectoral cooperation.

The report also summarizes the methods used to make project results publicly accessible, the use of the project website, professional and conference activities, publication outputs, cooperation with target groups, and the sustainability of dissemination activities following the completion of the project.

## Introduction

The project POPs\_RISKMANbase in the Context of the Transition to a Sustainable Bioeconomy addressed an environmentally and socially significant issue concerning the management of risks associated with persistent organic pollutants (POPs), particularly polychlorinated biphenyls (PCBs). Given the long-term nature of PCB contamination and its potential impacts on human health, the environment, the food chain, land use, and the development of affected regions, an important component of the project was not only the professional implementation of research activities but also the transparent communication of the project's objectives, activities, and results.

Project dissemination and promotion activities were carried out within Work Package WP4/KPB4 – Management and Dissemination. This work package built upon the technical outputs of KPB1, KPB2, and KPB3 and ensured their public accessibility, communication among project partners, data management, and support for the continued use of project results after project completion. Project data management was addressed separately in D4.2, which emphasizes the validation, secure storage, backup, distribution, and archiving of project data.

A key communication tool was the project website, [riskman.lf.tuke.sk](http://riskman.lf.tuke.sk), which was used to publish essential information about the project, its objectives, partners, outputs, and professional activities. The website also presented specific project activities, including the international scientific conference DIS 2025, a professional workshop on PCB risk management in Eastern Slovakia, and a workshop with SOVA Digital and Siemens PLM.

The present D4.7 report provides the final evaluation of the project's dissemination and promotion activities. Its purpose is not to repeat the detailed technical results of the individual work packages, but rather to document how these results were made accessible, presented, and communicated to the relevant target groups. The report also demonstrates that publication, conference, and professional activities formed an integral part of project implementation, contributing to the continuous dissemination of knowledge, professional feedback, and support for the future application of project results.

The report was finalized as the concluding public deliverable of Work Package KPB4, taking into account the approved amendment to the project schedule, according to which the substantive implementation of the project was completed in August 2026 and Work Package KPB3 – Verification was completed in Month 32 (M32). Consequently, the report also covers the dissemination of results from the verification and evaluation phase of the project.

## 1. Objective of Project Dissemination and Promotion

The objective of project dissemination and promotion was to ensure that the project results were available not only to the project team and the funding body but were also made accessible, in an appropriate form, to the professional community, public administration authorities, practitioners, project partners, and the wider public.

The dissemination activities focused primarily on:

- communicating the project's objectives, progress, and results;
- publishing public reports from the individual work packages;
- promoting professional discussion on POPs/PCB-related issues;
- presenting interim results at professional and scientific events;
- obtaining feedback from the scientific community and practitioners;
- fostering cooperation with project partners, professional institutions, and the private sector;
- creating the conditions for the further application of the PCBRISKMAN framework.

Dissemination was understood as a continuous process accompanying the technical and research activities of the project, rather than as a separate activity detached from the research content.

### 1.1 Target groups of the dissemination

The project's dissemination and promotional activities were aimed at several target groups:

| Target group                           | Character of communication                                                             |
|----------------------------------------|----------------------------------------------------------------------------------------|
| Professional and scientific community  | scientific articles, conference papers, workshops, and discussions.                    |
| State and local government authorities | public reports, expert information on PCB risks, and decision-making support.          |
| Application sphere and private sector  | consultations, workshops, and cooperation in the application of project results.       |
| Project partners                       | internal communication, coordination of deliverables, and data exchange.               |
| Students and young researchers         | involvement in monitoring, modelling, risk assessment, and data processing activities. |
| Public                                 | website, public reports, and science communication materials.                          |

This communication approach fostered the integration of scientific research, public interest, and the practical application of the project results.

## 2. Communication and dissemination tools of the project

Several communication and dissemination tools were used to disseminate the project results:

| Tool                          | Task in the project                                                                       |
|-------------------------------|-------------------------------------------------------------------------------------------|
| Project website               | public dissemination of project information, updates, and outputs.                        |
| Public work package reports   | clear and accessible presentation of the project's key results.                           |
| Professional news             | documentation of scientific results and methodological approaches.                        |
| Conferences                   | presentation of findings and professional feedback.                                       |
| Workshops                     | discussion with the professional community and practitioners.                             |
| Publications                  | dissemination of knowledge within the scientific and professional community.              |
| Internal meetings of partners | coordination of project implementation, data exchange, and monitoring of task completion. |

These tools complemented one another and enabled both the continuous and final communication of the project results.

### 3. Project website and published activities

The project website, <https://riskman.lf.tuke.sk/>, served as a public communication and dissemination tool throughout the implementation of the project. In addition to providing basic information about the project, its objectives, partners, funding, and outputs, the website was regularly updated with news and professional activities related to project implementation. Deliverable D4.5 itself states that the purpose of the website was to ensure transparent access to information for project partners, the public, and professional institutions, and to provide a platform for sharing both interim and final project outputs.

The following activities, in particular, were published on:

| Activity                                                           | Date / term      | Character of the activity           | Benefit for dissemination                                                                                                                                                     |
|--------------------------------------------------------------------|------------------|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Theory and Application of Technical Diagnostics Methods – DIS 2025 | 1. – 2. 10. 2025 | International scientific conference | Presentation of the project within the broader professional context of technical diagnostics, maintenance, digitalisation, safety, aviation applications, and sustainability. |
| Workshop on PCB Risk Management in Eastern Slovakia                | 3. 12. 2025      | Professional workshop               | Direct professional dissemination of issues related to PCB contamination, monitoring, risk management, and data processing within the PCBRISKMAN model.                       |
| Workshop with SOVA Digital and Siemens PLM                         | 18. 3. 2026      | Professional and practical workshop | Integration of the project with the fields of digital engineering, modelling, and tools applicable to the further development of the decision-support platform.               |
| Public Work Package Reports                                        | 2026             | public project outputs              | Making the results of KPB1, KPB2, and subsequently KPB3 accessible to both the professional community and the wider public.                                                   |

The DIS 2025 Conference (Theory and application of technical diagnostic methods) was presented as an event organized under the auspices of the project and provided a platform for presenting research projects and exchanging experience in the fields of digitalization, diagnostics, experimental methods, safety, aviation applications, and sustainability.

The Workshop on PCB Risk Management in Eastern Slovakia focused on the current state of measurement and monitoring of PCB contamination in Eastern Slovakia. The published content included expert presentations and discussions aimed at facilitating the exchange of experience among specialists and the processing of data within the PCBRISKMAN model.

The workshop with SOVA Digital and Siemens PLM was presented as a professional activity held at the Faculty of Aeronautics of the Technical University of Košice (TUKE) in support of the project, focusing on tools and methods in digital and immersive engineering.

#### 4. Public outputs of the project

An important component of the dissemination activities was the publication of public work package reports. Their purpose was to make the key project results available in a clear and accessible form suitable for the professional community, public administration institutions, practitioners, and the wider public.

The project website served as a platform for publishing the project's public deliverables. At the time, the final project outputs were being prepared, public reports presenting the results of Work Packages KPB1, KPB2, and KPB3 were available on the website. These outputs enable the main project results to be presented publicly, covering the entire process from the initial analytical framework through the methodological, modelling, and GIS framework to verification, evaluation of measures, and proposals for the further development of the PCBRISKMAN model.

| Public output                                              | Aim                                                                              | Relevance to Dissemination                                           |
|------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------|
| D1.6 - Public Report on the Results of WP1/KPB1            | analytical framework, sources, transport pathways, receptors, critical scenarios | making the project's analytical framework publicly accessible        |
| D2.6 - Public Report on the Results of WP2/KPB2            | methodology, modelling framework, GIS, risk assessment                           | making the methodological and modelling approach publicly accessible |
| D3.4 - Public Report on the Results of WP3/KPB3            | verification, model validation, measures, residual risk, further research        | final dissemination of the results of the verification phase         |
| D4.4 - Final Report on Project Implementation              | overall public summary of project implementation                                 | summary of the fulfilment of the project objectives and activities   |
| D4.7 - Final Report on Project Dissemination and Promotion | communication, publications, workshops, website, cooperation                     | final evaluation of WP4/KPB4                                         |

## 5. Publication, Conference and Professional Activities

Publication and conference activities were carried out as part of the professional communication and dissemination of the project results. Throughout the project implementation period, the project team focused on the continuous dissemination of findings through scientific and professional articles, conference papers, workshops, and presentations related to Work Packages KPB1 to KPB3.

These activities did not represent a separate final stage of the project's technical and research activities; rather, they served as an ongoing means of dissemination, professional feedback, and validation of the direction of the project. Their implementation supported transparent access to the project results and corresponded with the gradual completion of the deliverables of the individual work packages.

The documentation relating to the monitored measurable indicators specifies a target value of five publication outputs and includes a list of professional and scientific outputs linked to the objectives of KPB1, KPB2, and KPB3.

**The target value of the monitored indicator for publication outputs was achieved.**

The publication outputs were thematically linked to the activities carried out within Work Packages KPB1 to KPB3 and contributed to the professional communication of the project results.

## 6. Cooperation with the Professional Community, Practitioners, and the Private Sector

Project dissemination was also supported through cooperation with the professional community, practitioners, and the private sector. This cooperation was particularly important for assessing the practical applicability of the topics addressed, facilitating the exchange of experience, and creating conditions for the further development and application of the project results.

Cooperation was carried out primarily through:

- the partnership between TUKE, R-DAS, s.r.o., and TOMARK, s.r.o.;
- professional consultations and working meetings;
- workshops and conference activities;
- contractual or professional cooperation with practitioners and industry;
- communication with experts in the fields of environmental assessment, monitoring, GIS, technical diagnostics, digital engineering, and risk management.

These collaborative activities were developed continuously in connection with the project's technical and research activities, dissemination efforts, and the future application of its results. Their objective was to strengthen links between the research environment and practitioners and to create conditions for the further application of the PCBRISKMAN methodological framework.

## 7. Evaluation of Dissemination Activities and Related Monitored Indicators

Within the project, measurable indicators related to scientific, professional, project, cooperation, and dissemination outputs were monitored.

From the perspective of the D4.7 report, the most relevant indicators are those related to publications, cooperation, professional activities, follow-up project activities, and public accessibility of the project results:

| Field                               | Linkage to dissemination                                           | Assessment                                                           |
|-------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------------|
| Publication outputs                 | professional dissemination of results and scientific communication | the target value was achieved                                        |
| Conferences and workshops           | presentation of results, discussion, and feedback                  | carried out continuously throughout project implementation           |
| Project website                     | public access to project information and outputs                   | ensured through the project website, riskman.lf.tuke.sk              |
| Public reports                      | dissemination of work package results                              | prepared and progressively made publicly available                   |
| Cooperation with application sphere | knowledge transfer and future application of project results       | developed through partnerships, workshops, and professional contacts |
| Projects in other schemes           | continuity and sustainability of the research direction            | documented in the project documentation                              |

The monitored indicators relevant to dissemination and the further application of the project results were assessed as **achieved**.

These indicators were progressively fulfilled throughout project implementation and were closely linked to the technical and research activities of the work packages, the communication of project results, and the future applicability of the PCBRISKMAN framework.

## 8. Sustainability of Dissemination After Project Completion

The sustainability of dissemination will be ensured primarily through the continued public availability of project outputs, the archiving of professional and data-related materials, and the ongoing professional communication of the project results.

Following the completion of the project, the following resources and outputs will remain available for further use:

- the project website as a publicly accessible information and documentation platform;
- public work package reports;
- methodological knowledge developed within KPB1 to KPB3;
- professional and scientific outputs and publications;
- contacts and collaborative relationships established during project implementation;
- the **PCBRISKMAN** framework as a basis for further research and future application-oriented validation.

The project results provide a foundation for the further development of digital decision-support tools, GIS visualization, evaluation of measures, effectiveness monitoring, and the preparation of follow-up research or application-oriented projects.

## Conclusion

The dissemination and promotional activities of the POPs\_RISKMANbase project contributed to the transparent communication of the project's objectives, progress, and results. They were implemented as an integral part of Work Package KPB4 – Management and Dissemination and built upon the technical and research results of Work Packages KPB1, KPB2, and KPB3.

An important dissemination tool was the project website, which ensured public access to information about the project, its activities, and outputs. Dissemination was further supported through public work package reports, professional events, workshops, conference, and publication activities, as well as cooperation with project partners, the professional community, practitioners, and the private sector.

Publication and conference activities were carried out continuously throughout project implementation as a means of professional communication, feedback, and knowledge transfer. Their purpose was to enhance the visibility of the project, validate the direction of the project activities through professional discussion, and create conditions for the further application of the project results, rather than to replace or shorten the technical and research activities of the individual work packages.

Based on the available documentation, it can be concluded that the dissemination activities contributed to achieving the objectives of WP4/KPB4 and to ensuring the sustainability of the project results. The project established a professional and communication basis for the further development of the PCBRISKMAN framework, the preparation of follow-up research activities, and support for decision-making in addressing environmental contamination associated with POPs/PCBs.

The final evaluation of the dissemination activities was prepared considering the approved amendment to the project schedule, which made it possible to include the results of the KPB3 verification and evaluation phase in the publicly disseminated project outputs.