

SUMMARY

PollinERA aims to move the evaluation of the risk and impacts of pesticides and suggestions for mitigation beyond the current situation of assessing single pesticides in isolation on honey bees to an ecologically consistent assessment of effects on insect pollinators using a systems approach.

GENERAL INFORMATION

CONSORTIUM | 11 institutions, 8 countries

STRUCTURE | 7 work packages

DURATION | January 2024 - December 2027

COORDINATOR

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SPECIFIC OBJECTIVES & ACTIONS

 **SO1** | Fill ecotoxicological data gaps to enable realistic prediction of the source and routes of exposure and impact of pesticides on pollinators and their sensitivity to individual pesticides and mixtures.

 **ACTION** | Reporting on the identification of pesticide sources, routes, and levels of exposure as well as acute, (sub)chronic and interactive effects of pesticides on pollinators representing different taxonomic groups.

 **SO2** | Develop and test a co-monitoring scheme for pesticides and pollinators across European cropping systems and landscapes, developing risk indicators and mixture exposure information.

 **ACTION** | Pesticide and pollinator co-monitoring scheme (PPCoMS) prototype and protocols made available through the EU Pollinator Hub.

 **SO3** | Develop models for predicting pesticide toxicological effects on pollinators for chemicals and organisms, improve toxicokinetic/toxicodynamic (TKTD) and population models, and predict environmental fate.

 **ACTION** | *In silico* models related to chemical structure implemented in VEGAHub (platform for QSAR (quantitative structure-activity relationship) models) and TKTD published on EFSA's TKPlate and species model papers published in the FESMJ open collection.

 **SO4** | Develop a population-level systems-based approach to risk and policy assessment considering multiple stressors and long-term spatiotemporal dynamics at a landscape scale and generate an open-database for pollinator/pesticide data and tools.

 **ACTION** | Documentation of the integrated systems ERA tools completed. Predictive ERA tools are co-developed and reality-benchmarked with monitoring data.

