

PAN-EUROPEAN ASSESSMENT, MONITORING, AND MITIGATION OF STRESSORS ON THE HEALTH OF BEES

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All around the globe, bees face many threats and are often in decline. While studies suggest that agrochemicals have a negative impact on bee health, their importance and relevance in the real world remains unclear. PoshBee aims to support healthy bee populations, sustainable beekeeping and pollination across Europe.



1

MEASURE HAZARD

by quantifying the exposure of honey bees, bumble bees, and solitary bees to agrochemicals, nutritional stress, and pathogens within major agricultural cropping systems across Europe.

This will fill a major knowledge gap in the exposure hazard of chemicals for bees.



2

ASSESS TOXICITY

and dynamics of key agrochemicals, and their mixtures, in honey bees, bumble bees, and solitary bees.

This will improve policy and regulations for the safe use of agrochemicals.



3

ESTIMATE HEALTH EFFECTS

through improved understanding of how agrochemicals, nutrition, and pathogens drive health in honey bees, bumble bees, and solitary bees.

This will help beekeepers and other stakeholders improve bee health management.



4

DEVELOP A BEE HEALTH MODEL

providing the first mechanistically-underpinned holistic model of bee health building on current MUST-B approaches.

This will validate and develop agent-based, landscape-explicit models for risk assessment in bumble bees.



5

MONITOR TOOLS AND PROTOCOLS

by providing validated tools for the monitoring and assessment of bee health and exposure to stressors.

This will result in a novel molecular monitoring tool, or 'health card' for bees.



6

DRIVE POLICY AND PRACTICE

through a project-developed European bee health knowledge exchange hub.

This will assist and promote sustainable beekeeping, bee health, and pollination services.

