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RECOTOX: AN INITIATIVE IN ECOTOXICOLOGY-TOXICOLOGY to monitor, understand and reduce the impacts of pesticides in socio-agro-ecosystems

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• Why RECOTOX?

For many years, the scientific community has pointed out the **lack of long-term field and large-scale monitoring** of the **effects of chemicals** on ecosystems. In addition, the ecotoxicological studies carried out involve protocols often **far away from the conditions of the real world**. Hence, our capacity to elucidate and predict such effects remains limited.

In this respect, RECOTOX aims at:

- promoting **transversal and integrated research** to answer the scientific challenges of understanding and anticipating the environmental and health impacts of pesticides and biocides,
- analyzing the **whole chain “pressures-exposures-impacts”** by coordinating and increasing the ***in natura* observation** and **experimentation** dedicated to ecotoxicology and toxicology,
- sharing between its constitutive observatories/sites a **common culture** around ecotoxicology

• What is RECOTOX?

RECOTOX is an initiative including observatories or sites belonging to Research Infrastructures, (AnaEE-F, OZCAR, LTSEr-ZA), several experimental units of the network RMT Quasaprove and observatories depending on universities. They provide various and complementary agro-pedo-climatic situations.



• A scientific project

The scientific project of RECOTOX is organized in 5 WPs:

- promotion and organization of a transversal and integrated research on the chain “pressures-exposures-impacts”,
- development of multi scale approaches, from the plot to the landscape, in diverse media (soil, water, air, biota)
- development of innovative experimental or measurement methods, standardization,
- development of a focal point for data management and distribution to scientists and stakeholders,
- communication, dissemination and exploitation of results, training.

• A transversal ambition

RECOTOX interacts with the major structures and scientific networks and infrastructures dealing with **environmental sciences** and **ecotoxicology**.

