

POWERING PRECISION ECOLOGY FOR ECOSYSTEM MANAGEMENT

Qonfluens develops a web-platform designed to accelerate the environmental risk assessment of chemical products and biocontrol strategies. We aim to support the transition toward a OneHealth approach.

We focus on building bespoke, interpretable, predictive models for the biotech industry.

- **Product development:** streamline target identification and optimise experimental design.
- Market access: demonstrate efficiency and safety for regulators and users.

DVANCED STATISTICS Our tool implements all standard data analyses for ecotoxicology (NOEC, LOEC, LCx, ECx, SSD) together with more advanced modelling techniques (Growth, BioAccumulation, GUTS, TK, TK-TD, PB-TK). Moreover, we have expertise specific probabilistic programming (i.e. Bayesian inference) of ecotoxicological models, enabling the fine-tuning of mechanistic models with lab or ground data.





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PATIAL RISK ASSESSMENT
Besides standard (eco)toxicity statistics, we provide many tools for higher tier analysis, including several landscape level models.
Our solution provides an innovative approach combining probabilistic PB-TK-TD model and landscape exposure scenario (i.e., Geographical Information System).
We offer tools to facilitate uncertainty and sensitivity analysis in the data, parameters and models, thereby avoiding over-confident predictions and handling worst-case scenarios.

Solution HOME PERFORMANCE While simple models can run on virtually any computer, some others have prohibitive hardware requirements (RAM, GPU, etc). Our platform always selects the appropriate hardware to fasten computations - and optimize costs. Forget the time when your computer was stuck for

hours while your models were running!





OLLABORATIVE PLATFORM

Ecological studies often involve many different scientific topics, different jobs, different organizations. We believe communication is key in such situations, and that collaborative tools can make it easier.

To do so, the platform is built around huge knowledge base including relevant regulatory texts, model summaries and scientific references. We want each result report to be crystal clear, with a complete scientific legitimacy.

Dr. Virgile Baudrot Founder, CEO PhD in Ecological Modeling

Thomas
KleiberFounder, CTOComputer
System Engineer

Pr. Sandrine Charles Scientific Advisor University Professor at UCBL (Lyon)

www.confluens.com