



# TOX-TRAIN Getting USEtox<sup>®</sup> out of the lab

TOX-TRAIN stands for the implementation of a toxicity assessment tool for practical evaluation of life-cycle impacts of technologies. The four-year long project aims at creating a user-friendly tool-box to assess toxicological impacts related to the life-cycle of technologies. The partners, experts of both commercial and academic organizations, are to transform the latest scientific developments into a usable and efficient product for researchers, industries and everyone interested in toxic life-cycle impact assessment of technologies.

## The project aims to:

- ✓ Improve toxicity impact assessment models
- ✓ Quantify chemical emissions and potential impacts
- ✓ Apply developments in case studies
- ✓ Put forward an update proposal for USEtox
- ✓ Provide training and outreach of USEtox
- ✓ Document and provide guidelines the of developments



The validity, applicability and relevance of toxic impact assessment in the life cycle of products will be tested and improved for a selected number of chemicals, focusing on the USEtox model. The substance coverage of USEtox will be expanded, new emission quantification models will be developed, indoor exposure models for work place and household will be included and finally the outcomes will be tested in case studies.

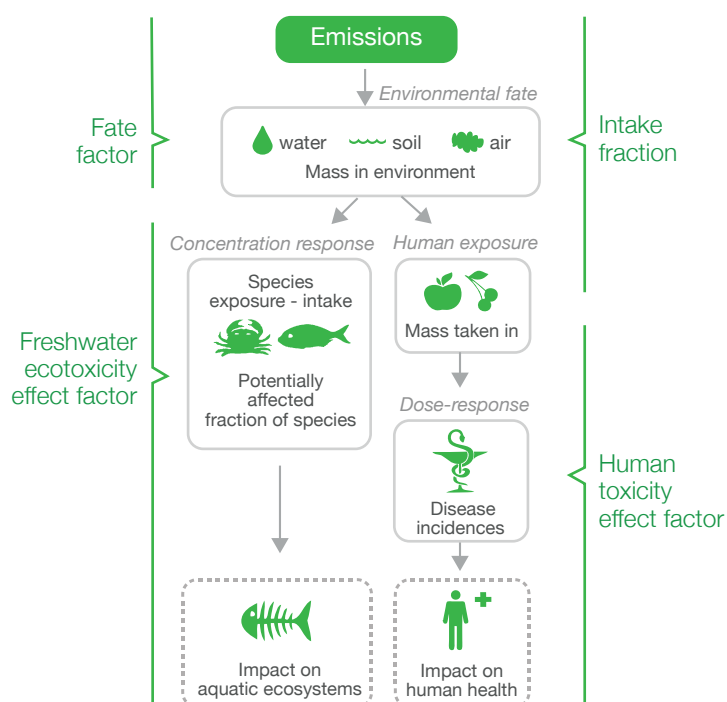
The project runs from 2011 till 2015 and is part of the seventh framework programme under the Industry-Academia Partnerships and Pathways (IAPP) of the Marie Curie actions with the grant agreement number 285286.

## About USEtox<sup>®</sup>

USEtox was built as a scientific consensus model for toxic impacts considering a balance between state-of-the-art science and the need for stability and reliability on the level of application.

Recommended by the United Nations Environment Programme and the European Commission, used by the US Environmental Protection Agency and other organizations, USEtox is increasingly used in various life-cycle assessment tasks such as hot spot identification, comparison of alternatives or labelling.

[www.usetox.org](http://www.usetox.org)



## Partners



### Coordination and scientific developments

- ▶ Quantification of chemical emissions
- ▶ Coupling of chemical emission and impact quantification modeling
- ▶ Indoor exposure in household and occupational setting
- ▶ Test new regression models in case studies

#### Contact

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### Model enhancements and uncertainties

- ▶ Indoor exposure in household and occupational setting
- ▶ Degradation, partitioning and toxicity estimation for emerging compounds
- ▶ Parameter uncertainty calculation of estimation routines
- ▶ Test new regression models in case studies

#### Contact

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### Data providing and testing

- ▶ Data provision on chemical emissions
- ▶ Supply industrial case scenarios to calibrate models
- ▶ Provide case studies for application
- ▶ Industry advice on developments

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### Communication and dissemination

- ▶ Collecting feedback from USEtox users
- ▶ Creating a user-friendly interface for USEtox
- ▶ Providing documentation and user guidelines
- ▶ Organizing training sessions

#### Contact

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## Upcoming documentation and events

- ▶ [www.usetox.org](http://www.usetox.org)

## How can you help?

Other organizations interested in or working with USEtox are welcome to collaborate. You can help by:

- ✓ Providing user and/or industry needs
- ✓ Giving feedback and development inputs
- ✓ Testing the online tool
- ✓ Testing the documentation and user guidelines

Contact [toxtrain@quantis-intl.com](mailto:toxtrain@quantis-intl.com)