



DATA SHEET
UMBERTO LCA+



WHAT ARE MY OPTIONS WHEN BUILDING A LIFE CYCLE MODEL?

- Life cycle phases as graphical elements, adjustable in number and name
- Linear and non-linear process specifications with parameters
- Process specifications with user-defined functions enable the modeling of mathematical relationships
- Freely definable parameters
- Hierarchical modeling structure (any number of subnet levels)
- Copy&Paste and Undo&Redo are available for editing
- Save model sections in the module gallery for later reuse
- Integrate inventories and inventory changes
- Specify processes by programming with Phyton (scripting)
- Export and import of linear specifications as Excel file in the form of an aggregated input/output table



WHAT ARE MY OPTIONS WHEN USING COST CALCULATION?

- Holistic Management Cost Accounting with material direct costs and process costs (variable and fixed)
- Material Flow Cost Accounting (MFCA) to calculate the true cost of material losses
- Free definition of cost types and cost plans
- Assign fixed and variable costs to each cost center
- Presentation and evaluation of results for each cost center
- Cost unit accounting



WHICH LCA DATABASES CAN I USE IN UMBERTO LCA+?

- ecoinvent 3.4 with over 13'300 ready-to-use integrated LCI datasets
- GaBi databases available optionally
- All datasets are adaptable, transparent and well documented
- Originality of datasets is verified for reviewing purposes
- Module gallery for saving individual processes and partial models, time-saving reuse in other models



WHICH METHODS FOR LIFE CYCLE IMPACT ASSESSMENT (LCIA) CAN I CHOOSE?

- ReCiPe, Impact 2002+, Eco-Indicator 99, CML, TRACI, IPCC and many other indicator systems are integrated with the software
- User defined impact assessment methods can be created
- Individual KPIs of different indicator systems can be freely combined
- You choose which impact indicators will be used to display the results





WHAT ANALYSES AND REPORTS CAN I GENERATE?

- Mass and energy balances for the entire system as well as for sub-systems
- Material Flow Cost Matrix according to ISO 14051
- Analysis based on processes, products, flows
- Display cost analysis in tables or graphs
- Export of all result data to Microsoft Excel
- Sankey diagrams of cost, energy, and mass flows
- Sankey diagram graphics export is quick and easy
- If you are missing a specific report type, the Umberto Customizing Team will be happy to assist you in implementing it



CAN UMBERTO BE LINKED WITH OTHER PROGRAMS?

- Using the Live Link to Microsoft Excel allows referencing cell values in Excel and link them to flows, coefficients or parameters in Umberto NXT models. Changes in the workbook are updated live.
- Linking to ERP systems such as SAP/R3 and integration of specialized tools such as Aspen Plus® or CHEMCAD can be achieved through cooperation with our Umberto Customizing Team.
- A link to sustainability management tools such as WeSustain or Enablon can be achieved by the Umberto Customizing Team in cooperation with our partners.
- For the repeated transfer of large amounts of data into Umberto models from various data sources, the Umberto Customizing Team will develop a convenient solution.



WHERE DO I FIND HELP GETTING STARTED WITH UMBERTO?

- The tutorial allows learning the software with practical examples
- Comprehensive user manual describing all functions of the software
- Online help for quick answers
- Get help from other users in the Umberto community at my.Umberto.de
- Public trainings, individual webtrainings, and in-house trainings are available



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3. Get a trial version of Umberto and get to know our software at go.ifu.com/trial_version_umberto_lca

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