umberto®
know the flow.

UMBERTO LCA+

PROFESSIONAL SOFTWARE TO IMPROVE PRODUCTIVITY AND SUSTAINABILITY

YOUR TASKS AND GOALS FOR IMPROVED PRODUCTIVITY

Typically productivity and efficiency in production systems are subject to a continuous improvement process. A variety of tools and measurements are applied already. The complexity of the Excel sheets is rising with every new efficiency project you work on. Whenever a colleague tries to understand the Excel tools created by someone else, there is a tendency to start from scratch.
This is the time to move on to Umberto as a graphical modelling tool. It is intuitive to use and creates visual results, which are understood by the whole team.

The productivity goals to reach with Umberto LCA+ are:

- Efficiency improvements
- Resource productivity
- Waste reduction
- Find the best recycling options
- Technology assessment
- Chain transparency
- Risk reduction

YOUR SOLUTION WITH UMBERTO LCA+

Graphical Modelling
You create system understanding with Umberto with its graphical modelling approach. Production systems become transparent with Sankey Diagrams visualizing material flows, energy flows and costs.

Cost Accounting
Considering material and energy flows and all costs related to the production system in one model is unique and provides transparency and a profound basis for decision support.

Mass and Energy Balances
Analyse and evaluate the mass and energy balances of a whole production system, a supply chain for one or several products or any selected part of the system.

Selected functions of Umberto Umberto LCA+:

- Sankey Diagrams
- Linear and non-linear processes
- Cost accounting
- Mass and energy balancing
- Export all results to Microsoft Excel

LINKING SUSTAINABILITY AND PRODUCTIVITY

Who is responsible for improving the sustainability of the production system in your company? Is it the same team that works on productivity? Often this is not the case.
In sustainability and life cycle assessment the tools used are different from the tools used by your productivity colleagues. The basis of both tasks is a profound understanding of the production system with all relevant material and energy flows. So sustainability and productivity require the same data. Umberto LCA+ provides an overall view on processes, products and sites to optimize the system instead of optimizing one aspect at a time.

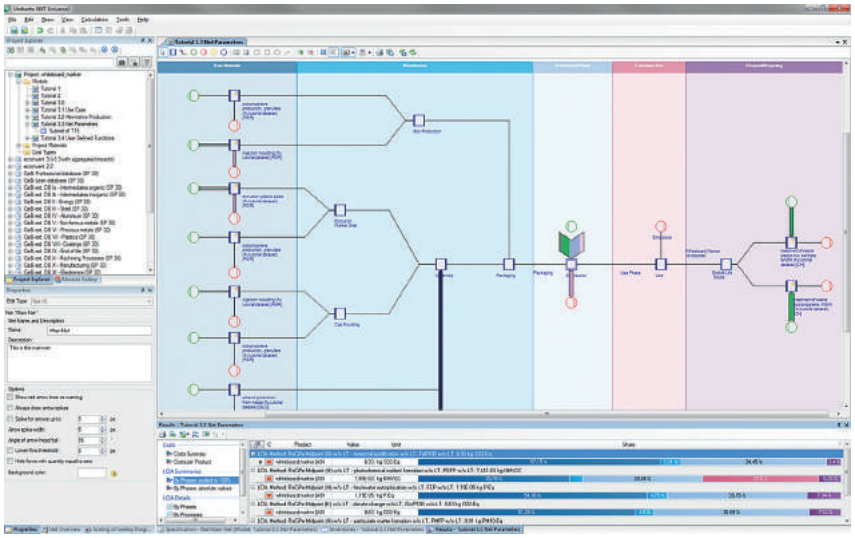
The sustainability goals to reach with Umberto LCA+ are:

- Environmental improvements
- Sustainable product design
- Reduction of climate impact
- Zero-Emission-Production
- Product Environmental Footprinting
- Corporate Environmental Footprinting
- Greening the supply chain
- Reduction of environmental risks

Umberto LCA+ supports sustainability especially with:

- Ecoinvent 3 LCI database
- GaBi LCI database
- Sankey Diagrams of impact indicators
- Export all LCIA results to Microsoft Excel
- Combination of cost KPIs and LCIA indicators

YOUR SOLUTION WITH UMBERTO LCA+ FOR SUSTAINABILITY



Graphical user interface of Umberto LCA+

Life Cycle Modelling
Following the relevant processes and flows in the life cycle allows both: efficient modelling and the degree of detail needed for decision-making. You create system understanding with Sankey Diagrams visualizing material flows, energy flows and environmental impacts.

Life Cycle Impact Assessment
To assess the potential environmental impacts of an existing product or a planned production system Umberto LCA+ provides collections of environmental indicators you can choose from and combines the indicators most relevant for you and your stakeholders.

Analyzing the Material and Energy Flow
Analyze and evaluate the mass and energy balances related to one or several product to understand the impacts and contributions on a specific product to the whole system.

NEXT STEPS

1. Visit ifu.com/en/umberto/
2. Join a free web demo at go.ifu.com/umberto-web-demos
3. Get a trial version of Umberto and get to know our software at go.ifu.com/trial_version_umberto_lca

We'll be happy to answer any questions by phone: +49 40 - 480 009-0 or via email at: info@ifu.com