



UMBERTO NXT CO₂

Software for calculating the carbon footprints of products and businesses

Umberto NXT CO₂ is a new generation of software for calculating and modeling the carbon footprints of products, processes, and businesses. This software solution combines the software development capabilities and the far-reaching methodological know-how of the interdisciplinary team from ifu Hamburg GmbH, the Institute for Environmental Information Technology.

Step by step in the right direction

Knowing your carbon footprint has become more and more important because it provides both ecological and economic advantages. Especially when understood as a concept for optimization, the calculation of greenhouse gas emissions offers many approaches to save both production costs and the environment. This is important to an increasing number of end users, distributors and suppliers who now base their business decisions on environmental information. By actively

communicating the results of their CO₂ analyses, these companies cater to a criterion relevant to their customers' buying decisions.



SOFTWARE HIGHLIGHTS

Visual editor

A central feature of Umberto NXT CO₂ is the editor. Its power is the ability to visually model all processes under analysis, creating an easy and comfortable work flow. The software development process that created it paid special attention to increasing Umberto's already powerful graphic functions. But increasing user comfort isn't the only benefit. Graphic modeling within a network model also supports user understanding of basic processes and can pinpoint initial optimization approaches even in the earliest phases of analysis.

Data

An extensive data set of GWP values for over 4,000 materials from the ecoinvent database and the country of Colombia, as well as the BioGrace GWP data for bio-fuels form a solid basis for analyzing the entire

value chain. This enables carbon footprint analyses that conform to PAS 2050, the GHG Protocol Product Accounting & Reporting Standard, and ISO 14067.

Analysis

Of course, all results can also be shown as a table or grouped individually. But Umberto's big advantage lies in its use of Sankey diagrams. These quantity-based visualizations are an ideal tool to communicate the most relevant results to a broad audience with widely differing technical backgrounds. The diagrams can be exported in high-quality, print-ready formats. The final result can also be saved in an attractive logo that can be used to great advantage in communicating product information.

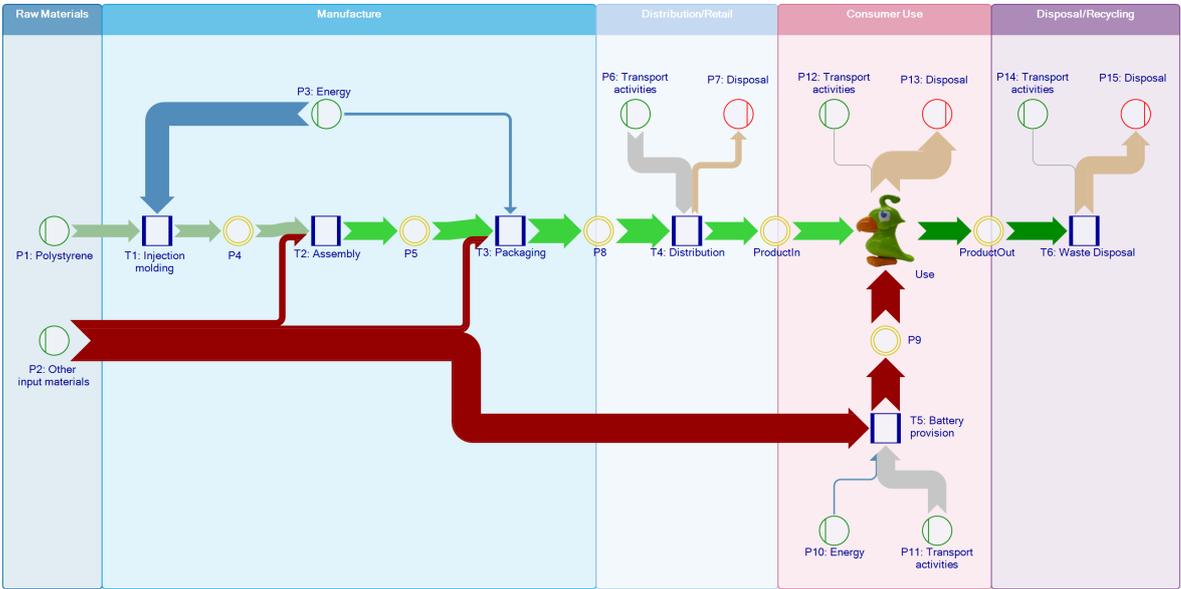
SUCCESSFUL USES AND APPLICATIONS

A variety of consultants and companies are already using the software to put a number on greenhouse gas emissions from products, processes and businesses. It is also the basis for devising strategies that reduce those carbon footprints. Successful projects have included evaluating the various methods of building pipeline systems, analysis of trade fair displays, and calculation of the carbon footprints of alternative water filtering systems. The software also allows users to evaluate interventions already in place to reduce emissions. These examples show

how ecological demands can be combined with economic advantages – resulting in a definite step toward more sustainable production.

You can find more details about these projects in the download section of our website at:

<http://go.ifu.uco2-downloads>



Sankey diagram of a carbon footprint of a toy parrot

SOFTWARE AND SERVICE BACKED BY EXPERIENCE

Umberto NXT CO₂ combines 20 years of experience in software development with extensive research and consultation for projects in the field of eco balancing and carbon footprint analysis. The tutorials included with the software and our software training offer users the best transition to exploring the software’s full

power. We also provide experienced users with comprehensive modeling support. We are always happy to talk with you about all your options. Just give us a call or send an email:
Phone: (+49) 40 480 00 90
Mail: sales@umberto.de

TEST NOW AND ORDER ONLINE

You can download your personal trial version at:

www.carbonfootprint-software.com

Licenses are available directly from our online shop. The software is delivered electronically following the provision of a license key.



The carbon footprint logo from Umberto NXT CO₂ showing a product’s numerical results.