SimaPro cloud edition | Data Release - Professional 10.3 and 10.4

User Documentation

SimaPro

Title:	SimaPro cloud edition | Data Release - Professional 10.3 and 10.4 User Documentation
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About SimaPro

SimaPro is life cycle assessment software that helps organizations measure and analyze the environmental impacts of products across their entire life cycle. Built on extensive datasets and established scientific methods, the software provides transparent insights that support product development, sustainability strategy, and environmental reporting.

Used by industry and academia in more than 90 countries, SimaPro enables advanced modeling and scalable environmental impact calculations across teams. With more than 35 years of development behind it, SimaPro is widely trusted in the global LCA community. SimaPro is part of the One Click LCA group.

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1 Introduction

This document describes the changes to the data on SimaPro cloud edition with the April 2026 data release. The aim of this release is to align the data libraries, impact assessment methods and substances with the SimaPro desktop 10.3 and 10.4 releases.

Some software changes have also been implemented to allow for changes in data and improve data import – most relevant changes to SimaPro users are also included in this document and in the release notes.

2 Overview of data changes

2.1 New data libraries

2.1.1 ecoinvent 3.12

With the release of ecoinvent v3.12, the ecoinvent database integrates around 1300 new data sets, also with expanded geographical coverage. Sectors updated with this version include agriculture, fishery and animal husbandry, batteries and electronics, chemicals and plastics, electricity, forestry and wood, fuels, metals, textiles, waste management and recycling and transport. More information on new and updated data can be found here.

To update links in your project to from ecoinvent 3.11 to 3.12, you can use the library switch. More information on using this feature is available here.

ecoinvent EN15804 also available but requires additional paid license

The ecoinvent allocation, cut-off EN15804 (version 3.12) is now also available on the SimaPro cloud edition. This system model is fully compliant with ISO 14025, ISO 21930 and EN15804+A2:2019. It provides all Life Cycle Inventory (LCI) indicators required by the aforementioned standards and adheres to the end-of-waste criteria set by the European Commission. To access this data, an add-on ecoinvent license is required which you can purchase via SimaPro B.V. or your SimaPro reseller.

2.1.2 BAFU

The Swiss Federal Administration's life cycle inventory (LCI) database, BAFU:2025, offers over 11,000 third-party reviewed and mostly disaggregated datasets across 176 categories—from construction to waste management.

This library is now available in SimaPro format and is provided to current clients through the migration offer; clients from 8 April 2026 onwards automatically have access.

2.1.3 International Molybdenum Association (IMOA)

In 2000, the International Molybdenum Association (IMOA) completed a Life Cycle Inventory (LCI) for three molybdenum products for metallurgical applications. In 2008 and again in 2018, IMOA updated the LCI to increase production representativeness and further improve the data quality with current facility and background data.

International Molybdenum Association library includes 3 updated datasets:

- Molybdenum Tech Oxide powder (input to steel & chemicals)
- Molybdenum Tech Oxide Briquette (input to steel)
- Ferromolybdenum (FeMo)

As well as introducing one new dataset: Molybdenum Concentrate (average ore type)

Please note that the older data is present in the Industry 2.0 library.

2.1.4 Agri-footprint 7.0

Agri-footprint offers comprehensive, consistent, comparable and transparent life cycle inventory (LCI) data globally. This release integrates over 4800 datasets with regionalized data from over 63 countries. The data is also aligned with global standards like ISO14040/44 and PEF. With this latest version, also the background data has been updated (from FAO, and the use of ecoinvent 3.10 instead of 3.8).

Agri-footprint is available in three different libraries, based on mass, energy or economic allocation. Agri-footprint (economic allocation) is available by default, the other versions can be provided upon request.

Additional data libraries

To access additional data libraries, please first check what is available for SimaPro cloud edition. If eligible, please reach out to SimaPro Support to request access.

2.2 Changes to impact assessment methods

Please find below a summary of changes to impact assessment methods. Note that if you have saved default calculation setups, you need to manually update the selected method to use the latest version (it is not automatically updated to the newer version). For more information, please refer to the Methods manual.

2.2.1 New impact assessment methods

2.2.1.1 Ecological Scarcity 2021 (aligned with BAFU)

This method is identical to the Ecological Scarcity 2021 method, with exception of the water scarcity assessment category. Instead of 'Water resources, net balance', this version of the method includes the 'Water resources, evaporated' impact category.

Due to incomplete modelling of unregionalized water emissions in parts of the BAFU database, the 'Water resources, evaporated' category has been implemented as follows:

- Unregionalized water to air flows are not characterized.
- Instead, unregionalized water resource flows are characterized, assuming that 5-10% of the withdrawn water is evaporated.

Please note that for water scarcity assessments, this method is only compatible with the BAFU data library.

2.2.1.2 IPCC 2021 - ISO 14067 Method

The ISO 14067 method, according to the ISO 14067:2018 standard, is an adapted version of the IPCC 2021 GWP100 (incl. CO2 uptake) method.

Contrary to the IPCC 2021 GWP100 (incl. CO2 uptake) method, the ISO 14067 method characterizes aircraft emissions separately to fossil emissions. Aircraft emissions encompass all fossil emissions within the stratosphere and stratosphere + troposphere subcompartments. Therefore, aircraft emission can be calculated and/or reported separately in alignment with the ISO 14067:2018 standard.

2.2.2 Updated impact assessment methods

2.2.2.1 IMPACT World+

IMPACT World+ is a life cycle impact assessment method which characterizes thousands of substances spanning across various compartments and sub-compartments of the environment. It differentiates 19 impact categories at midpoint level and 34 impact categories at damage level. The v2.1 update is the biggest update of the IMPACT World+ method in many years as it introduces new impact categories and updates many models with the latest available research. IMPACT World+ version 2 comes in three interpretation levels: Expert, Midpoint and Footprint.

The Expert version is tailored for experienced users, the Midpoint version is intended for practitioners who prefer to operate at the midpoint level and the Footprint version is designed

for practitioners with limited expertise in LCA and impact assessment.

The Expert and Midpoint versions encompass all recommended indicators, categorized at the damage and midpoint levels, respectively. The damage-level indicators are further aggregated into Areas of Protection (AoPs), specifically human health and ecosystem quality.

It must be noted that some indicators, such as fossil and nuclear energy use and mineral resources use, are only available at the midpoint level. Thus, if these indicators are considered of interest for a given study along with the AoP indicators, both versions of the method should be used.

2.2.2.2 AWARE 2.0

AWARE (Available WAter REmaining) represents the relative available water remaining per area in a region/watershed after the demand of humans and aquatic ecosystems has been met. It assesses the potential of water deprivation, to both humans and ecosystems, assuming that the less water remaining available per area, the more likely another user will be deprived. AWARE is a midpoint indicator expressed in m3 world eq. Characterization factors (CFs) of AWARE quantify the relative water scarcity of an average m³ of water withdrawn in a region, on a scale from 0.1 to 100, with a value of 1 corresponding to the world average. A value of 10, for example, indicates a region where there is 10 times less available water remaining per area than the world average.

AWARE is the recommended method from WULCA to assess water consumption impact assessment in LCA. In May 2016, the method was appointed by the Life Cycle Initiative as the global consensus method for water footprinting. This method is also used in the Environmental Footprint impact assessment method developed by the European Commission.

In 2025, AWARE2.0 was published in an effort to increase data transparency and consistency, while alleviating some general limitations of the previous characterization factor dataset. AWARE2.0 explicitly considers the special cases of river deltas, inland sinks, and subdivided river basins and furthermore benefits from an improved representation of basin area, increased responsiveness of environmental water requirements to seasonal flow patterns, and a more appropriate water consumption definition.

AWARE2.0 was created by a smaller team than AWARE, intending to remain within the limits of the initial consensus while increasing methodological consistency, timeliness, and input data transparency. In the final stage of the project, the remaining co-authors of the main AWARE publication were consulted for their feedback.

This implementation (SimaPro version 2.0) was adapted from IMPACT World+ Midpoint 2.1 Water scarcity indicator and replaces the AWARE v1 method.

2.2.2.3 Other updates

Characterization factors have been added for new geographies for some water related substances in all applicable methods.

Additionally, the characterization factors of specified subcompartments that match the characterization factor of the unspecified subcompartment have been removed from all

applicable methods since these will automatically be characterized with the same characterization factor as the unspecified subcompartment.

Additionally, in Ecological Scarcity 2021 the characterization factors for water extraction flows of the geography Serbia (RS) were corrected. For more details on the changes, please see the comments of the individual methods, section "# Other adaptations (December 2025... SimaPro 10.4)".

For more details on the changes, please see the comment section of the individual methods.

Using the correct method version with the corresponding library version

Please note that new libraries are **not** backward compatible with older methods - e.g. the library ecoinvent 3.11 Cut-off can be used with the LCIA method ReCiPe 2016 Midpoint H [1.11], but it should not be used with ReCiPe 2016 Midpoint H [1.08]. This is because the latter corresponds to the method released with ecoinvent 3.9.1 in SimaPro 9.6 Professional, and does not use the same substance nomenclature as ecoinvent 3.11. To check which method version was released with which ecoinvent version please refer to the changelogs provided with each data release.

2.3 Changes to substances and general data

Please find below a summary of changes to substances and general data.

- Changes to substances
  - 305 new substances were added.
  - 189 substances were renamed, for consistency across SimaPro products portfolio.
  - 7 substances have been replaced.
  - 7 substances that are no longer supported, hence would not be characterized by new methods.
- Changes to units
  - 4 new units were added.
- Changes to geographies
  - 4 new geographies were added.

For a complete list of substances, units and geographies that have been added, renamed or replaced, please refer to the detailed changelog.

3 Changes to software

3.1 New mapping options when importing SimaPro csv files

When importing data via a SimaPro csv file, after uploading a file on the Import Details page, you can select which nomenclature is used in the file. This means you can more easily import data

from different versions of SimaPro into the platform. Please note that the nomenclature chosen this only affects how substances are mapped, not products.

With this release, we have introduced new import options, so users should now see the following options – please make sure to choose the libraries that you use in the new project, prior to importing data!

- **Professional 9.4** – ensures substances are mapped based on naming convention in the SimaPro Professional 9.4 database (with ecoinvent 3.8)
- **SimaPro EF 3.1** – ensures substances are mapped based on naming convention in the SimaPro Environment Footprint 3.1 database. Choose this option when doing PEF modelling or if the data originated from a SimaPro desktop database using the EF 3.1 libraries
- **Professional 9.5** – ensures substances are mapped based on naming convention in the SimaPro Professional 9.5 database (with ecoinvent 3.9.1)
- **Professional 9.6** – ensures substances are mapped based on naming convention in the SimaPro Professional 9.6 database – choose this option when importing data modelled using the SimaPro Professional 9.6 database (with ecoinvent 3.10)
- **SimaPro ecoinvent 3.10 EN15804** – ensures substances are mapped based on naming convention in the SimaPro EN 15804 +A2 database
- **Professional 10.2** – ensures substances are mapped based on naming convention in the SimaPro Professional 10.2 database – choose this option when importing data modelled using the SimaPro Professional 10.2 database (with ecoinvent 3.11)
- **SimaPro ecoinvent 3.11 EN15804** – ensures substances are mapped based on naming convention in the SimaPro EN 15804 +A2 database
- **Professional 10.4** – ensures substances are mapped based on naming convention in the SimaPro Professional 10.4 database – choose this option when importing data modelled using the SimaPro Professional 10.4 database (with ecoinvent 3.12)
- **SimaPro ecoinvent 3.12 EN15804** – ensures substances are mapped based on naming convention in the SimaPro EN 15804 +A2 database

Importing data from older versions of SimaPro

If you have data from an older version of SimaPro (i.e, prior to SimaPro 9.4 with ecoinvent 3.8), please follow the desktop user guide to first update your SimaPro Desktop database to the latest version. More information and instructions on how to update can be found here.

Importing ecoinvent 3.12 data prior to the official data release

Please ensure that no data from new data libraries is imported to SimaPro cloud before the official data release. Incorrect substance mapping can lead to differences in LCIA results, due to missing or invalid substances. After the official release, make sure to replace all previously imported processes with the official processes from the new data libraries.

4 Contact us

Please contact us or your local partner if you have questions about these changes in the SimaPro software or database, or if you have any other questions related to the update. You can reach out to us via:

- E-mail: support@simapro.com
- SimaPro cloud edition: https://synergy.simapro.com/contact-support