Using pedigree features in openLCA

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1 Introduction and motivation

In the course of the PROSUITE project, the openLCA software was extended to allow entering pedigree information for process data. To this end, the database structure of openLCA was also modified. This small text explains how to install a new version of openLCA, and how to update an already installed version.

2 Fresh installation of openLCA

Download openLCA from the download location, and run the installation file (the exe file in windows systems). More information on the installation is provided in the openLCA wiki, here: http://openlca.org/documentation/index.php/Getting_started.

Be aware that an internet connection is needed during the installation to allow download of the MySQL database. Note further that for PROSUITE project members, a different download location might be provided.

When openLCA is first started, a data directory will be created in, for windows, [your username]/openLCA-data.

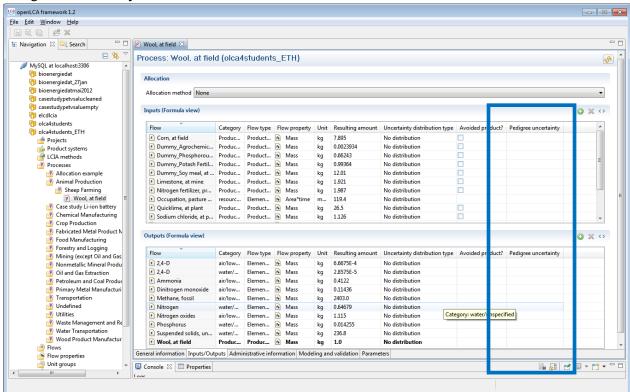
3 Updating an existing installation of openLCA

For updating an existing installation, locate the database folder and a save it to a safe place (just in case anything happens during the database update procedure). Keep the original openLCA-data folder at its place. Then, uninstall openLCA, and install openLCA again from the install file. For further information on the install procedure, which you should have successfully passed already, please see the fresh installation chapter above.

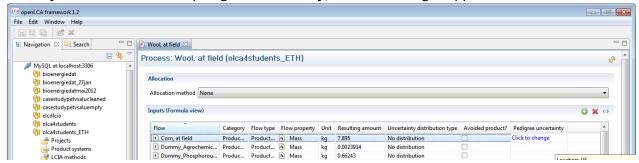
Then, start openLCA as usual, and connect to the MySQL server. Now, the database structure of all the databases is updated, therefore, the connection to the server might take longer, depending on the size and number of databases that you have created.

4 Entering pedigree information in openLCA

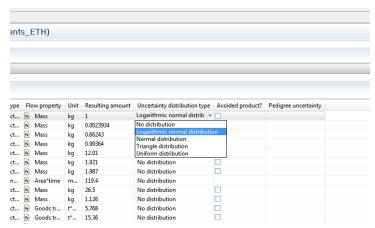
If you have done the installation, you can open a process data set and enter pedigree information for inputs and outputs of the process as follows. There is now a new column, Pedigree uncertainty, for each flow:



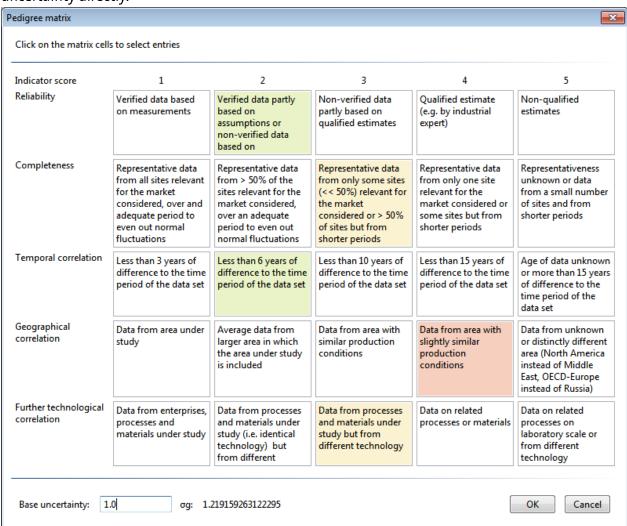
For entering the pedigree uncertainty, click in one of the fields of this column (for the flow where you want to enter the pedigree uncertainty); "click to change" appears in the cell:



If you want to specify an uncertainty distribution, first select an uncertainty distribution type if no distribution is currently provided. Note that then the resulting amount field is changed to 1.



If you then click in the pedigree field, the pedigree matrix appears, and you can enter pedigree information by clicking in the respective cells of the matrix. Enter a value for the base uncertainty directly:



The entered values will be saved.

