Limits to Growth SS23



Exercise – 6

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**Deadline:** 07.06.2023 – 2:00 pm

**Do you have any questions?** Contact us via email [etce-ltg@tu-clausthal.de](mailto:etce-ltg@tu-clausthal.de) or write a message in the Matrix channel!

**Task(s):**

Task 1: What is the environmental Impact of your favourite food?

* Pick your favourite fruit/vegetable that you regularly buy at the grocery store.
* Compile a comprehensive list of all required resources that go into the production of this fruit/vegetable.
* With the information you gathered, compute the environmental impact of the product system using LCA.
* Your computation must at least consider the processes of production of the fruit/vegetable and the transportation of the fruit/vegetable from the “farm” to the grocery store (or where you bought it from).
* You can use the automated tools provided by OpenLCA to do this easily.
* OpenLCA Nexus has a collection of datasets, e.g., the Agribaylase dataset which contains existing LCA and LCI studies, which you can use to model your product system.
  + You can use the automated tools provided in [OpenLCA](https://www.openlca.org/download/) to do this easily, using the free datasets provided on [OpenLCA Nexus](https://nexus.openlca.org/databases).
  + Suggested detailed tutorial: [Link](https://www.youtube.com/watch?v=kEosW6PceVg)

Submission instructions

Submit the results as a PDF file. The PDF file should further contain your full name, your student email address and your student ID. **Submissions in a wrong format or lacking that information will be ignored.**

Submission filename: “E06-<firstname.lastname >.pdf”

* Please upload your submission file under the following link:

<https://sync.academiccloud.de/index.php/s/MW3wY8uOVJbTrei>