Emerging Technologies for the Circular Economy



SS23

Exercise – 03

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**Deadline:** 15.05.2023 – 13:59

**Task(s):**

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](http://openlca.org/) to do this easily.
      * [OpenLCA Nexus](https://nexus.openlca.org/) 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.

Submission:

* Submit the results as a PDF file.

Submission location:

Göttingen Students: StudIP

TUClasthal Students: Moodle

Questions? : [etce-etce@tu-clausthal.de](mailto:etce-etce@tu-clausthal.de)