

## 2 Executive Summary

The mapping of all relevant processes was conducted for each of the alternative proteins and the results are presented in this report. The mapping is the first step in a complete Life Cycle Inventory (LCI) for the processes; LCI is an essential process in the Life Cycle Assessment (LCA) framework. Figure 1 shows the main components of the LCA. All foreground information has been collected, and process diagrams and input / output table have been prepared. The protein processes in NextGenProteins are varied, but all of them can produce proteins using different sources. Algaenovation (VAXA) is producing proteins from algae, Arbiom from wood, Entocube from cricket and Mutatec from black soldier fly larvae.

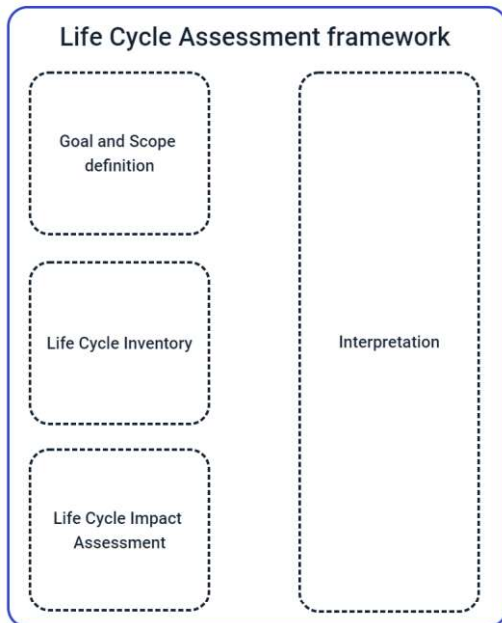


Figure 1: Components of the Life Cycle Assessment framework.

Through communication with each of the partners, the task set forth in this deliverable was successfully completed and inventories of inputs/outputs and associated process diagrams developed for each protein production process. The resulting inventories and processes show clear distinctions between the different protein production procedures. However, there exists room for improvement in terms of data quality from each partner. The issue of data quality can most likely be attributed to the fact that the protein processes are at different development stages. The goal for the next deliverable (D6.2) will be to improve and finalize the inputs/outputs for each process and begin to develop the LCA portion of the analysis.