

## Social Evaluation of Aircraft

Task for a *Project*

### Background

In recent years, sustainability has become of importance, but while economic and environmental aspects are in the focus of sustainability assessments, the third pillar of sustainability often is neglected. To analyze social impacts of products, a Social Life Cycle Assessment (S-LCA) was developed by a work group of the United Nations to fill the gap in sustainability assessment. A life cycle approach has the advantage to provide a holistic picture of all impacts the product can have along its life span, however, S-LCA still lacks a standardized methodology and further research is necessary in this field. A life cycle approach has been used already to assess aircraft regarding its environmental and economic impacts, but manufacturing and using an aircraft has also several social impacts on different stakeholders. Thus, this project addresses the social aspects of the aeronautic sector by employing a Social Life Cycle Assessment.

### Task

Task of this Project is to apply the methodologies, proposed by the "Guidelines for Social Life Cycle Assessment of Products" published by the Life Cycle Initiative in the United Nations Environmental Programme (UNEP), for the product aircraft, specifically the Airbus A380 program. Before, a systematic literature review on this topic has to be performed. Following subtasks are:

- Review the state of the art of S-LCA related to an aircraft or an aircraft program.
- Take the A380 program as an example and make an S-LCA to the level of detail possible in the frame of this project by collecting and selecting stakeholders, impact categories, indicators and related data as basis of the S-LCA.
- Generalize the findings from the performed S-LCA of the A380 program. In which way may an S-LCA for another aircraft program vary from the A380 example? What are the standard elements that will be part of every aircraft S-LCA?

The report has to be written in English based on international standards on report writing.