

## Assignment 3 and 4

Cross-industry knowledge transfer for a circular economy: what can the aviation sector teach, and what can it learn?

### Problem statement

The aviation industry already makes extensive use of repairing and re-manufacturing, which are crucial components of circular economy systems. How can repair and re-manufacturing procedures used in aviation be adapted and transferred to other industries? On the other hand, circular design frameworks, approaches and practices have been developed in other industries. How can lessons learned in other industries be adapted and transferred to the aviation industry?

### Research question(s)

1. How can circular design frameworks, approaches and practices have been developed in other industries be adapted and transferred to the aviation industry?
2. How can repair and re-manufacturing procedures used in aviation be adapted and transferred to other industries? Are there areas in which the aviation sector a frontrunner when it comes to sustainability?

### Suggested academic backgrounds

- Industrial Design (TUD)
- Industrial Ecology (TUD/Leiden)
- Aerospace engineering (TUD)
- Management of Innovation (EUR)
- Urban, Port and Transport Economics (EUR)
- Global Business & Sustainability (EUR)
- Philosophy and Economics (EUR)

### Expected type of work

This research assignment can be developed by designers, engineers, natural or social scientists.